									Well	Concentrati Sample	ons		
tation ID	Station Name	Well Name	county_name	well_status_desc	pws_type	Lithcode	LithDescription	aguifer_name	Depth Units	Count	Min	Ava	Ma
SEN00437	GREEN SPRINGS WELLFIELD	1	Seneca	(IN) Inactive	COMM	LS	CDO (Dolostone)	Undiff Salina Dolomite	108 ug/l	4	13	17	
SHE00094	SIDNEY WELLFIELD	6	Shelby	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	Lockport Dolomite	200 ug/l	20	0	16	- 33
SHE00106	LAKE LORAMIE STATE PARK	1	Shelby	(IN) Inactive	TNC	LS	CDO (Dolostone)	Lockport Dolomite	105.5 ug/l	10	45	57	
SHE00421	ANNA WELLFIELD	4	Shelby	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Teays Buried Valley	123.5 ug/l	21	29	37	
SHE00423	FORT LORAMIE WELLFIELD	2	Shelby	(SB) Standby	COMM	LS	CLS (Limestone)	Ordovician undivided	0 ug/l	2	29	47	
SHE03654	FORT LORAMIE WELLFIELD	4	Shelby	(AR) Active Rotational	COMM	LS	CLS (Limestone)	Ordovician undivided	302 ug/l	19	18	21	
SHE08924	ANNA WELLFIELD	5	Shelby	(SB) Standby	COMM	UNC	USD (Sand)	Teays Buried Valley	105 ug/l	1	33	33	
STA00012	MASSILLON STEEL CASTINGS	1	Stark	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Tuscarawas River	137 ug/l	4	240	280	3
STA00162	CANTON NORTHEAST WTP	17	Stark	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Sandy Creek	196 ug/l	17	193	305	1
STA00163 STA00164	CANTON NORTHWEST WTP NORTH CANTON WTP	5	Stark Stark	(IN) Inactive (AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Sandy Creek	132 ug/l	14 18	348 170	439 301	6
STA00164	MINERVA WELLFIELD	3	Stark	(SB) Standby	COMM	UNC	CHS (Shale/Sandstone) USG (Sand/Gravel)	(blank)	397 ug/l	2	425	446	4
STA00171	BREWSTER WELLFIELD	4	Stark	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Sandy Creek Sugar Creek	76 ug/l 105 ug/l	20	236	304	3
STA00173	CANAL FULTON	6	Stark	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	172 ug/l	16	113	123	1
STA00175	MASSILLON WELLFIELD	7	Stark	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	165 ug/l	21	280	364	-
STA00176	NAVARRE WELLFIELD	3	Stark	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	0 ug/l	4	686	740	7
STA00212	MINERVA WELLFIELD	4	Stark	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	Sandy Creek	85 ug/l	21	358	420	4
STA00213	CANAL FULTON	4	Stark	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	169 ug/l	1	122	122	1
STA00254	NAVARRE WELLFIELD	1	Stark	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	92 ug/l	32	53	629	7
STA00448	EAST SPARTA WELLFIELD	1	Stark	(AS) Active Standard	COMM	SS	CSS (Sandstone)	(blank)	270 ug/l	25	99	115	1
STA08765	EAST SPARTA WELLFIELD	2	Stark	(SB) Standby	COMM	SS	CSS (Sandstone)	(blank)	0 ug/l	1	56	56	
STA08895	CANTON NORTHWEST WTP	7	Stark	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Sandy Creek	132 ug/l	1	504	504	
STA08904	CANTON NORTHWEST WTP	4	Stark	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Sandy Creek	166 ug/l	7	731	860	10
SUM00178	HUDSON WATER PLANT	1	Summit	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Cuyahoga Buried Valley	141 ug/l	19	10	22	
SUM00449	REVERE HS (BATH SCHOOL)	1	Summit	(IN) Inactive	NTNC	SS	CSH (Shale)	Ohio and Olentangy Shales	82 ug/l	11	22	42	1
SUM02561	HAPPY DAYS VISITOR CENTER	OLD	Summit	(IN) Inactive	TNC	SS	CHS (Shale/Sandstone)	Cuyahoga Group and Berea Sandstone	300 ug/l	3	69	73	
RU00003	YOUNGSTOWN AFB	2-5	Trumbull	(IN) Inactive	Non-PWS	SS	CSS (Sandstone)	(blank)	500 ug/l	1	220	220	2
TRU00161	KRAFT GENERAL	9	Trumbull	(IN) Inactive	Non-PWS	SS	CSS (Sandstone)	Bedford Shale, Cussewago Sandstone	115 ug/l	13	50	161	2
RU00438	CORTLAND WELLFIELD	5	Trumbull	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	(blank)	318 ug/l	21	0	8	
TRU08753	KRAFT GENERAL	11	Trumbull	(IN) Inactive	Non-PWS	SS	CSS (Sandstone)	Bedford Shale, Cussewago Sandstone	115 ug/l	8	63	131	4
TUS00004	DOVER WELLFIELD	7	Tuscarawas	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Sugar Creek	105 ug/l	29	210	355	10
TUS00013	SIMONDS-HELLER TOOLS	6	Tuscarawas	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Tuscarawas River	90 ug/l	9	0	429	7
TUS00087	GNADENHUTTEN WATERWORKS	1	Tuscarawas	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	116 ug/l	25	133	404	4
TUS00168	BOLIVAR WELLFIELD	4	Tuscarawas	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	100 ug/l	33	16	82	1
TUS00170 TUS00174	MINERAL CITY WELLFIELD	9	Tuscarawas	(IN) Inactive	COMM	SS	CSH (Shale)	(blank)	324 ug/l	2	220 391	225	5
TUS00243	CANTON SUGARCREEK WELLFIELD CANTON SUGARCREEK WELLFIELD	8	Tuscarawas Tuscarawas	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Sugar Creek	250.75 ug/l	28	440	503	4
TUS00243	DOVER WELLFIELD	8		(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Sugar Creek	250 ug/l	2	160	180	2
TUS06279	CANTON SUGARCREEK WELLFIELD	10	Tuscarawas Tuscarawas	(IN) Inactive (SB) Standby	COMM	UNC	USG (Sand/Gravel) USG (Sand/Gravel)	Sugar Creek Sugar Creek	102.5 ug/l 250 ug/l	3	575	619	6
TUS08355	SANDY VALLEY HIGH SCHOOL	1	Tuscarawas	(IN) Inactive	COMM	SS	CSS (Sandstone)	Massillon through Sharon formations	315 ug/l	2	0	0.19	
TUS08740	DOVER WELLFIELD	0	Tuscarawas	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Sugar Creek	100 ug/l	2	461	479	4
UNI00192	MARYSVILLE WELLFIELD	3	Union	(AS) Active Standard	COMM	LS	CDO (Dolostone)	(blank)	200 ug/l	25	14	25	
UNI00202	GENERAL INDUSTRIES INC	1	Union	(IN) Inactive	Non-PWS	LS	CDO (Dolostone)	(blank)	200 ug/l	4	0	28	
UNI00227	RICHWOOD WELLFIELD	4	Union	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	165 ug/l	24	0	1	
UNI00388	RICHWOOD WELLFIELD	5	Union	(SB) Standby	COMM	LS	CDO (Dolostone)	(blank)	165 ug/l	2	23	28	
VAN00154	CONVOY WATERWORKS	4	Van Wert	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	Salina Group and Lockport Dolomite	267 ug/l	20	0	11	
VIN00073	McARTHUR WELLFIELD	8	Vinton	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	255 ug/l	35	0	18	
VIN00181	ZALESKI WELLFIELD	5	Vinton	(SB) Standby	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	317 ug/l	4	0	0	
/IN00218	ZALESKI WELLFIELD	3	Vinton	(IN) Inactive	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	310 ug/l	3	0	0	
/IN00250	ZALESKI WELLFIELD	6	Vinton	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	375 ug/l	21	0	27	-
VAR00046	LEBANON WELLFIELD, PLANT 1	5	Warren	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Turtle Creek	65 ug/l	28	21	148	2
WAR00102	FRANKLIN WELLFIELD	7	Warren	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Great Miami River	112 ug/l	34	20	104	1
VAR00110	LEBANON CORRECTIONAL INST	3	Warren	(IN) Inactive	NTNC	UNC	USG (Sand/Gravel)	Shaker Creek	129 ug/l	17	0	17	
VAR00156	FRANKLIN WELLFIELD	6	Warren	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	90 ug/l	2	30	33	
VAR00211	LEBANON WELLFIELD, PLANT 1	4	Warren	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Turtle Creek	117 ug/l	1	151	151	
NAR00376	LEBANON CORRECTIONAL INST	2	Warren	(IN) Inactive	NTNC	UNC	USG (Sand/Gravel)	Shaker Creek	0 ug/l	5	30	36	

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TT00139 TT03679	ELMORE WATERWORKS ELMORE WATERWORKS	3	Ottawa	(AS) Active Standard	COMM	LS	CDO (Dolostone)	Lockport Dolomite	402 ugn	23	0	1	
LU00032	DAKWOOD WELLFIELD	3	Ottawa	(IN) Inactive	COMM	LS	CDO (Dolostone)	Lockport Dolomite	381 სტ/	1	۵	۵	_
U00238	OAKWOOD WELLFIELD	3 1	Paulding	(IN) Inactive	COMM	LS	CDO (Dolostone)	(blank)	480 ug/l	5	٥	D	
U00432	PAYNE WELLFIELD	1	Paulding	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	206 ug/l	13	0	5	
U03678	PAYNE WELLF(ELD	2	Paulding	(AR) Active Rotational	COMM	LS LS	GDO (Dolostone)	Salina Group and Lockport Dolomite	325 ug/l	20	18	58	
U06025	OAKWOOD WELLFIELD	2	Paulding Paulding	(IN) Inactive (SB) Standby	COMM	LS	CDO (Dolostone) CDO (Dolostone)	Salina Group and Lockport Dolomite	289 ug/l	2	0	25	
R02769	THORNVILLE WELLFIELD	1-2	Perry	(AS) Active Standard	COMM	SS	CHS (Shale/Sandstone)	(blank)	230 ug/)	4	0	0	•
00193	CIRCLEVILLE WELLFIELD	4	Pickaway	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Logan and Cuyahoga Group undiv Scioto River	120 ug/l	25	0	32	
00232	ASHVILLE WELLFIELD	1	Pickaway	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	East Columbus Buried Valley	125 ug/l	18 13	41	78	
00249	PICWAY POWER PLANT	i	Pickaway	(AR) Active Rotational	Non-PWS	UNC	USG (Sand/Gravel)	Scioto River	65 ug/l		88 34	112	
00275	DARBYVILLE WELLFIELD	í	Pickaway	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Big Darby Creek	94.75 ug/l	24 4		41	
04967	WILLIAMSPORT WELLFIELD	2	Pickaway	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Scioto River	26 µg/l	1	110 21	118 21	
06688	ASHVILLE WELLFIELD	3	Pickaway	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	East Columbus Buried Valley	60 ug/l 74 ug/l	12	96	101	
00071	PIXETON WELLFIELD	1	Pike	(AR) Active Rotational	COMM	UNC	USG (Sand/Grave))	Scioto River	72 ug/l	29	279	343	
20144	WAVERLY WELLFIELD	3	Pike	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Scioto River	66 ug/	26	314	402	
00209	PIKETON WELLFIELD	3	Pike	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Scioto River	69 ug/l	1	340	340	
00215	WAVERLY WELLFIELD	Ĭ	Pike	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Scioto River	70 ug/l	8	350	412	
00366	WAVERLY WELLFIELD	4	Pike	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Sclota River	70 ug/l	2	431	435	
R00157	GARRETTSVILLE WELLFIELD	20	Portage	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mahoning River	178 ug/l	17	184	230	
R00155	HIRAM WELLFIELD	1	Portage	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	Massillon through Sharon formations	150 ug/l	16	301	328	
200166	MANTUA WELLFIELD	3	Portage	(IN) Inactive	COMM	SS	CSS (Sandstone)	Massillon through Sharon formations	125 ug/l	9	247	266	
R00167	SHALERSVILLE WELLFIELD	1	Portage	(AS) Active Standard	COMM	SS	CSS (Sandstone)	(blank)	201 ug/l	24	138	213	
R00187	KENT WELLFIELD	11	Portage	(AR) Active Rolational	COMM	UNC	USG (Sand/Gravel)	Cuyahoga Buried Valley	120 ug/l	15	40	334	
R08645	KENT WELLFIELD	10	Portage	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Cuyahoga Buried Valley	131.7 ug/l	1	452	452	
R08656	MANTUA WELLFIELD	1	Portage	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Cuyahoga Buried Valley	100 ug/l	22	175	192	
200050	CAMDEN WELLFIELD	2	Preble	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Seven Mile Creek	41 ug/l	23	Ď	4	
E00377	CAMDEN WELLFIELD	3	Preble	(SB) Standby	COMM	UNG	USG (Sand/Gravel)	Seven Mile Creek	45 ug/l	1	ō	D	
E00411	LEWISBURG WELLFIELD	1	Preble	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Twin Creek	60 ug/l	19	70	80	-
E00415	GRATIS WELLFIELD	1	Preble	(AS) Active Standard	COMM	UNC	UGR (Gravel)	Twin Creek	26 ⊔g/l	16	ñ	1	
E00416	EATON BLACK PLANT	1	Preble	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Twin Creek	62 ug/l	18	26	33	ı
04432	EATON BLACK PLANT	3	Preble	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Twin Creek	70 µg/l	1	24	24	
00134	LEIPSIC WATERWORKS	3	Putnam	(AR) Active Rotational	COMM	LS	CDO (Dalostone)	(blank)	510 ug/l	18	ō		
F00430	KALIDA WELLFIELD	1	Putnam	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	400 Ug/I	22	27	36	,
00027	MANSFIELD STP	1	Richland	(AO) Active Organic	Non-PWS	UNC	USG (Sand/Gravel)	Mohlcan River	120 ug/l	39	19	254	
00137	STONE CONTAINER CORP	1	Richland	(IN) Inactive	Non-PWS	SS	CSS (Sandstone)	Logan and Black Hand undivided	200 ug/l	8	80	188	
00145	, CRESTLINE WELLFIELD	2	Richland	(IN) Inactive	COMM	UNC	USD (Sand)	Mohican River	195 ug/l	3	275	290	
00204	CRESTLINE WELLFIELD	3	Richland	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mohican River	206 ug/l	18	178	216	
05554	MANSFIELD STP	2	Richland	(SB) Standby	Non-PW\$	UNC	USG (Sand/Gravel)	Mohican River	120.67 ug/l	4	16	211	
08896	BELLVILLE, VILLAGE OF	4	Richland	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	(blank)	92 ug/l	11	10	105	į
08898	BELLVILLE, VILLAGE OF	5	Richland	(SB) Standby	COMM	UNC	(blank)	(blank)	92 ug/l	1	142	142	2
300007	MEAD PAPER	14	Ross	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Scioto River	108 ug/l	8	170	219	,
500095	CHILLICOTHE WELLFIELD	19	Ross	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Scioto River	89 ug/l	16	259	301	
500371	PAINT VALLEY SCHOOL	1	Ross	(AR) Active Rotational	TNC	LS	CDO (Dolostone)	(blank)	104 ug/l	20	69	121	,
00425	BAINBRIDGE WELLFIELD	4	Ross	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Paint Creek	77 ug/l	18	0	0	ı
00426	FRANKFORT WELLFIELD	3	Ross	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Paint Creek	53 tig/)	21	50	90	į
08738	CHILLICOTHE WELLFIELD	18	Ross	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Scioto River	0 ug/l	1	340	340	į
00152	GIBSONBURG WATERWORKS	2	Sandusky	(AO) Active Organic	COMM	LS	CDO (Dolostone)	Lockport Dalamite	300 ug/)	22	û	D	į
00239	GIBSONBURG WATERWORKS	4	Sandusky	(SB) Standby	COMM	LS	CDO (Dolostone)	Lockport Dolomite	301 ug/l	1	Q	0	į
00406	ERIE ISLANDS PLAZA (OTC)	WEST	Sandusky	(IN) Inactive	TNC	LS	CDO (Dolostone)	Undiff Salina Dolomite	0 ug/)	1	37	37	ŕ
0072	SCIOTO COUNTY RWA	8	Scioto	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Scioto River	63 ug/l	12	494	570	ļ
0270	SCIOTO COUNTY RWA	6	Scioto	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Scioto River	59 ug/l	3	454	473	i
00022	COLUMBIA GAS LNG	3	Seneca	(IN) Inactive	Non-PWS	ĻŞ	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dotomite	2	2	0	D	
00123	BLOOMVILLE WATERWORKS	2	Seлеса	(AR) Active Rotational	COMM	LS	CLS (Limestone)	(blank)	165 ug/)	20	0	12	,
100124 100386	GREEN SPRINGS WELLFIELD GREEN SPRINGS WELLFIELD	1-7 3	Seneca	(IN) Inactive	COMM	LS LS	CDO (Dolostane)	Undiff Salina Dolomite	0 ug/l	12	0	D	í
			Seneca	(IN) Inactive			CDO (Dolostone)	Undiff Salina Dotomite	i 109 ug/l	7	20	41	

									Well	Concentration Sample	ons		
ation ID	Station Name	Well Name	county_name	well_status_desc	pws_type	Lithcode	LithDescription	aquifer_name	Depth Units	Count	Min	Avg	M
MAD07301	LONDON WELLFIELD	7	Madison	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	London Complex	172 ug/l	4	26	28	
MAD07303	MT. STERLING WELLFIELD	3	Madison	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	285 ug/l	4	34	62	
MAD07305	SOUTH SOLON WELLFIELD	2A	Madison	(SB) Standby	COMM	LS	CDO (Dolostone)	(blank)	220 ug/l	1	21	21	
MAH00442	CRAIG BEACH WELLFIELD	5	Mahoning	(IN) Inactive	COMM	SS	CHS (Shale/Sandstone)	(blank)	160 ug/l	22	85	104	
MAR00008	BIG ISLAND WILDLIFE AREA	2	Marion	(IN) Inactive	Non-PWS	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite		4	0	45	
MAR00128	LA RUE WATERWORKS	1	Marion	(IN) Inactive	COMM	LS	CDO (Dolostone)	Tymochtee and Greenfield Dolomite	136 ug/l	26	0	5	
MAR00436	RIDGEDALE HS	SCHOOL	Marion	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	Undiff Salina Dolomite	200 ug/l	17	0	16	
MAR08916	LA RUE WATERWORKS	2	Marion	(AS) Active Standard	COMM	LS	CDO (Dolostone)	Tymochtee, Greenfield, and Undiff Salina dolomite	200 ug/l	3	10	10	
MED00029	WADSWORTH WELLFIELD	7	Medina	(IN) Inactive	COMM	SS	CSS (Sandstone)	(blank)	227 ug/l	2	820	895	
MED00159	LODI WATER DEPARTMENT	5	Medina	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Killbuck Buried Valley	91 ug/l	19	0	24	
MED00160	WADSWORTH WELLFIELD	9	Medina	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	(blank)	270 ug/l	17	758	1056	
MED00439	CHIPPEWA LAKE	1	Medina	(AS) Active Standard	TNC	SS	CHS (Shale/Sandstone)	Logan and Black Hand undivided	220 ug/l	26	43	52	
MED08381	WADSWORTH WELLFIELD	10A	Medina	(IN) Inactive	COMM	SS	CSS (Sandstone)	(blank)	0 ug/l		872	872	3
ME100080	SYRACUSE WELLFIELD	3	Meigs	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	(blank)	90 ug/l 68 ug/l	15 17	0	2	
MEI02142	MIDDLEPORT WELLFIELD, STU #2	5	Meigs	(AS) Active Standard	COMM	UNC LS	USG (Sand/Gravel)	Ohio River	241 ug/l	17	20	26	
MER00096	COLDWATER WATERWORKS COLDWATER WATERWORKS	5	Mercer Mercer	(AR) Active Rotational (SB) Standby	COMM	LS	CDO (Dolostone)	Salina Group and Lockport Dolomite	241 ug/l	5	31	43	
MER00207				A DATE OF THE PROPERTY OF THE PARTY OF THE P	COMM	LS	CDO (Dolostone)	Salina Group and Lockport Dolomite	308 ug/l	18	41	57	
MER00434 MIA00055	ROCKFORD WELLFIELD COVINGTON WELLFIELD	6	Mercer Miami	(AR) Active Rotational (AR) Active Rotational	COMM	UNC	CDO (Dolostone) USG (Sand/Gravel)	Salina Group and Lockport Dolomite Stillwater River	144 ug/l	37	31	47	
MIA00055	TROY WELLFIELD	17	Miami	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Great Miami River	122 ug/l	2	45	54	
MIA00108	TROY WELLFIELD	14	Miami	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Great Miami River	124 ug/l	16	44	68	
MIA03216	TROY WELLFIELD	2	Miami	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	125 ug/l	12	45	65	
MIA03216	COVINGTON WELLFIELD	9	Miami	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Stillwater River	0 ug/l	1	53	53	
MOT00033	ROCK WELL	5	Montgomery	(AS) Active Standard	Non-PWS	LS	CLS (Limestone)	(blank)	40 ug/l	17	0	55	
MOT00034	CATALPA GROVE MHP	1	Montgomery	(AR) Active Stational	COMM	UNC	USG (Sand/Gravel)	Great Miami River	40 ug/l	29	0	16	
MOT00038	MIAMISBURG WTP	8	Montgomery	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Great Miami River	150 ug/l	36	47	209	
MOT00047	TAYLORSVILLE RESERVE	1	Montgomery	(IN) Inactive	TNC	UNC	USG (Sand/Gravel)	Great Miami River	67 ug/l	27	40	141	
MOT00061	MONTGOMERY COUNTY/MIAMI SHORES	14	Montgomery	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	160 ug/l	4	238	276	
MOT00062	WOLF CREEK SPRING	SP1	Montgomery	(AR) Active Rotational	Non-PWS	UNC	Unknown	(blank)	0 ug/l	7	0	9	
MOT00104	DAYTON OTTAWA WELLFIELD	3	Montgomery	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Mad River	135 ug/l	1	160	160	
MOT00105	DAYTON MIAMI WELLFIELD	15R	Montgomery	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	165 ug/l	16	45	157	
MOT00113	MONTGOMERY COUNTY/MIAMI SHORES	19	Montgomery	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	225 ug/l	19	150	201	
MOT00118	NATIONAL CASH REGISTER	1	Montgomery	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Great Miami River	205 ug/l	6	55	224	
MOT00141	DAYTON OTTAWA WELLFIELD	4R	Montgomery	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mad River	115 ug/l	26	128	169	
MOT00148	MONTGOMERY COUNTY/MIAMI SHORES	15	Montgomery	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	0 ug/l	1	25	25	
MOT00251	DAYTON MIAMI WELLFIELD	10R	Montgomery	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Great Miami River	150 ug/l	16	182	215	
MOT08900	DAYTON MIAMI WELLFIELD	9R	Montgomery	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Great Miami River	153 ug/l	4	222	232	
MRE00025	CLARINGTON WATER DEPT	В	Monroe	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Ohio River	70 ug/l	30	0	0	
MRG00079	McCONNELSVILLE WELLFIELD	3	Morgan	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	45 ug/l	5	245	1555	- 3
MRG00451	MALTA WELLFIELD	4	Morgan	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Muskingum River	54 ug/l	30	0	272	
MRG02773	STOCKPORT WELLFIELD	2	Morgan	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Muskingum River	76 ug/i	15	0	0	
MRG03708	McCONNELSVILLE WELLFIELD	4	Morgan	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	48 ug/l	2	1940	2390	2
MRG06044	McCONNELSVILLE WELLFIELD	2	Morgan	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	0 ug/l	2	388	388	
MRW00189	MT. GILEAD WELLFIELD	4	Morrow	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Johnstown Complex	126 ug/l	23	39	49	
MRW00240	SIMS FERTILIZER	1	Morrow	(IN) Inactive	Non-PWS	SS	CSS (Sandstone)	Sunbury Shale and Berea Sandstone	60 ug/l	7	20	21	
MRW00271	SIMS FERTILIZER	2	Morrow	(IN) Inactive	Non-PWS	SS	CSS (Sandstone)	Sunbury Shale and Berea Sandstone	75 ug/l	2	0	45	
MUS00031	DRESDEN WELLFIELD	2	Muskingum	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Muskingum River	80 ug/l	4	375	433	
MUS00077	DRESDEN WELLFIELD	1	Muskingum	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	Muskingum River	85 ug/l	32	293	385	
MUS02771	PHILO WELLFIELD	6	Muskingum	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	51 ug/l	1	290	290	
MUS03219	ZANESVILLE WELLFIELD	6	Muskingum	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	67.5 ug/l	4	330	598	
MUS03685	PHILO WELLFIELD	2	Muskingum	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	40 ug/l	18	0	48	
NUS03690	ZANESVILLE WELLFIELD	3	Muskingum	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Muskingum River	69 ug/l	19	23	671	
IUS05492	ADAMSVILLE ELEM SCHOOL	BF	Muskingum	(IN) Inactive	NTNC	SS	CSS (Sandstone)	(blank)	180 ug/l	7	29	421	
1US06034	ZANESVILLE WELLFIELD	9	Muskingum	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Muskingum River	56 ug/l	18	211	585	
MUS08774	THE WILDS	1	Muskingum	(AS) Active Standard	TNC	SS	CSH (Shale)	Pennsylvanian Undivided	122 ug/l	19	11	253	
MUS08902	PHILO WELLFIELD	1	Muskingum	(AR) Active Rotational	COMM	(blank)	(blank)	(blank)	0 ug/l	2	91	102	

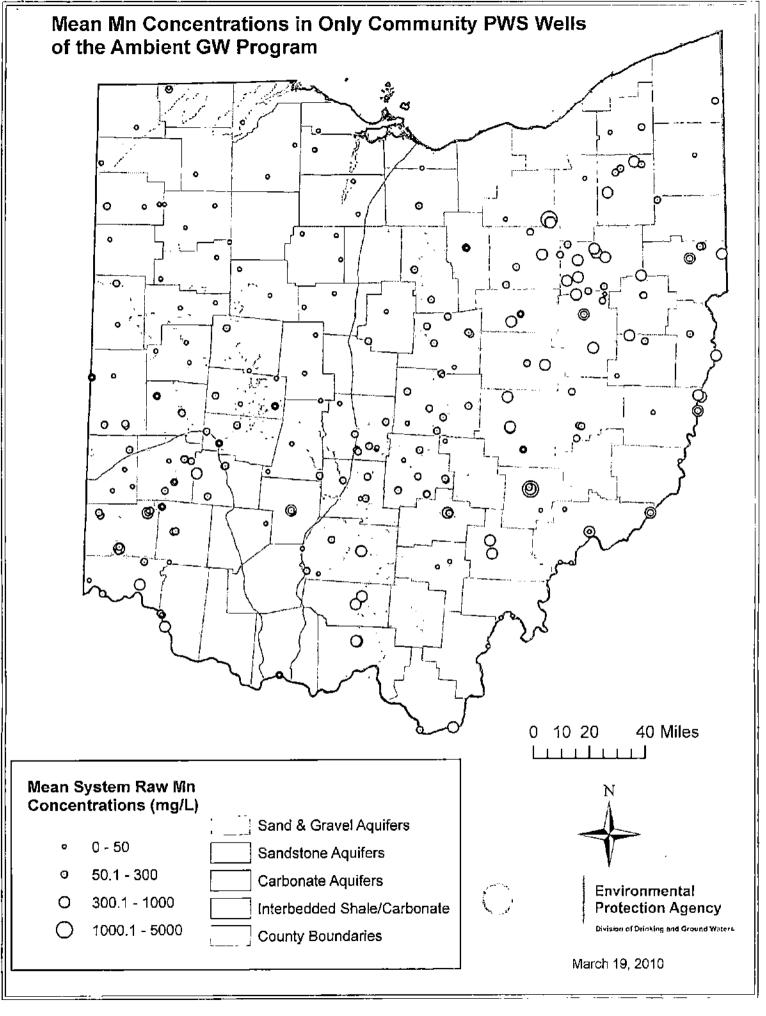
ation ID. 3	Slation (lame)	Well Marino	COUNTYLISTED	villa impera	TWE STOD	<u>lumeorn</u>	Line scripton	envlaentmo 1		eoneontau Samplo) Count	ang Cilia		
9HRD00127		2	Hardin	(IN) Inactive	COMM	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite	· Statut Mumb	5	15	21	
9HRD00408	ADA WTP	5	Hardin	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	15 0 ug/l	19	11	17	
9HRS00428		5	Harrison	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	Pennsylvanian Undivided	110 ug/l	16	0	2	
9HR\$02770	BOWERSTON WELLFIELD	1	Наптівоп	(AS) Active Standard	COMM	SS	CSS (Sandstone)	Pennsylvanian Undivided	140 ug/l	31	136	514	
9HRS02772		1-2	Harrison	(AS) Active Standard	COMM	SS	CSS (Sandstone)	Pennsylvanian Undivided	90 ug/l	25	77	123	
9HUR00126		2	Huron	(IN) Inactive	COMM	UNC	USD (Sand)	Galion Moraine	45 ug/l	7	154	175	
9HUR00248	NORTH FAIRFIELD WATERWORKS	1	Huron	(AS) Active Standard	COMM	UNC	USD (Sand)	Galion Moraine -	37 ug/l	32	0	206	
9JAC05497 9JEF00005	LAKE KATHERINE NATURE PRESERVE MINGO JUNCTION WELLFIELD	OFFICE	Jackson	(IN) Inactive	NTNC	SS UNC	CSS (Sandstone)	Allegheny and Pottsville undiv	155 ug/l	16	0	8	
9JEF00427		WEST	Jefferson	(AO) Active Organic	COMM	SS	USG (Sand/Gravel)	Ohio River	71 ug/l	41	636	900	
9KNO00190		R S	Jefferson Knox	(IN) Inactive (AR) Active Rotational	COMM	UNC	CHS (Shale/Sandstone) USG (Sand/Gravel)	Pennsylvanian Undivided	175 ug/l	5	50	75	
9KNO00191	STONE COUNTRY WATER CO	1	Knox	(IN) Inactive	COMM	SS	CSS (Sandstone)	Kokosing Buried Valley Logan and Black Hand undivided	97.5 ug/l	20	94 50	107	
9KNO00229	DANVILLE WELLFIELD	1	Клох	(IN) Inactive	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	180 ug/l	14		84	
9KNO00230	FREDERICKTOWN WELLFIELD	1	Knox	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Kokosing Buried Valley	235 սց// 122 կց//	2 2	166 175	175 178	
9KNO00259		7	Кпох	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Kokosing Buried Valley Kokosing Buried Valley	96 ug/l	4	80	93	
9KNO00279		2	Knox	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Kokosing Buried Valley	96 ug/i 133 ug/i	24	179	205	
9KNO00392		3	Knox	(AS) Active Standard	COMM	SS	CSS (Sandstone)	Legan and Black Hand undivided	300 ug/l	20	1/9	405	
9KNO07257		3	Knox	(IN) Inactive	COMM	\$S	CSS (Sandstone)	Logan and Black Hand undivided	250 ug/l	20	31	62	
9KNO08910		5	Кпох	(AS) Active Standard	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	345 ug/l	6	61	107	
9LAW00074		2	Lawrence	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Ohio River	85 ug/l	20	74	101	
9LAW02775	IRONTON IRON	7	Lawrence	(JN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Ohio River	84 ug/l	15	230	3743	
9LAW02787		EAST	Lawrence	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Ohio River	58 ug/l	4	495	512	
LAW02788		WEST	Lawrence	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Ohio River	53 ug/l	19	328	415	
LAW03213		6	Lawrence	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Ohio River	80 ug/l	3	950	4260	
LIC00006	PATASKALA WELLFIELD, STU 1	6	Licking	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	South Fork Licking River	103 ug/l	29	17	23	
L1C00017	HEATH WELLFIELD	4	Licking	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	South Fork Licking River	195 ug/l	6	120	150	
9L1C00185	HEATH WELLFIELD	5	Licking	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	South Fork Licking River	230 ug/l	26	92	184	
3LIC00194	ETNA SCHOOL WELLFIELD	1	Licking	(IN) Inactive	TNC	SS	CSS (Sandstone)	Cuyahoga Group	250 ug/l	2	93	108	
9LIC00221	HEBRON WELLFIELD	1	Licking	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	South Fork Licking River	155 ug/l	30	83	107	
9LJC00222	JOHNSTOWN WELLFIELD	4	Licking	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Johnstown-Groveport	300 ug/l	3	90	95	
9LIC00223	UTICA WELLFIELD	4	Licking	(IN) Inactive	COMM	SS	CSS (Sandstone)	Cuyahoga Group	350 ug/l	5	0	0	
9LIC00224	VALLEY MRP	1	Licking	(AR) Active Rotational	NTNC	UNC	USG (Sand/Gravel)	Licking River	206 ug/l	25	71	93	
BLIC00246	GRANVILLE WELLFIELD	2	Licking	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	North Fork Licking River	92 ug/\	34	96	143	
LIC00264	HOPEWELL ELEMENTARY SCHOOL	OLD	Licking	(IN) Inactive	TNC	SS	CSS (Sandstone)	Logan and Black Hand undivided	0 ug/l	13	57	64	
9LIC00390	UTICA WELLFIELD	5	Licking	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	North Fork Licking River	144 ug/l	24	186	204	
LIC07112	VALLEY MHP	2	Licking	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Licking River	208 ug/l	1	88	88	
9L1C07304	PATASKALA WELLFIELD, STU 1	5	Licking	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	South Fork Licking River	108 ug/l	5	20	25	
9LIC08737	HOPEWELL ELEMENTARY SCHOOL	1	Licking	(AR) Active Rotational	NTNC	SS	CSS (Sandstone)	Logan and Black Hand undivided	305 ug/l	12	0	19	
3LIC08917	PATAŠKALA WELLFIELD, STU 1	8	Licking	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	South Fork Licking River	88 ug/l	3	21	25	
9LOG00042	TRANSPORATION RESEARCH CENTER (TR	2	Logan	(AR) Active Rotational	NTNC	LS	CDO (Dolostone)	(blank)	240 ug/l	31	0	61	
9LOG00043	ZANESFIELD R&G CLUB	1	Logan	(IN) Inactive	TNC	UNC	USG (Sand/Gravel)	Mad River	140 ug/l	11	0	1	
9LOG00060	WEST LIBERTY WELLFIELD	1	Logan	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mad River	70 ug/l	36	20	35	
9LOG00422		3	Logan	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Great Miami River	85 ug/(16	45	102	
9LOG02861		2	Logan	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	95 ug/l	1	57	57	
LOG05673	WEST LIBERTY WELLFIELD	2	Logan	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Mad River	69 ug/l	2	35	35	
DLOG08770	RUSSELLS POINT WELLFIELD	4	Logan	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Great Miami River	O ug/l	1	102	102	
EUC00023	NONA FRANCE PARK	1	Lucas	(IN) Inactive	TNC	LS	CLS (Limestone)	Traverse, Dundee, Detroit River	133 ug/l	1	0	0	
EUC00138	COLLINGWOOD WATER SUPPLY CORP	1	Lucas	(IN) Inactive	Non-PWS	(blank)	CLS (Limestone)	(blank)	522 ug/	11	0	12	
ELUC00140		5	Lucas	(IN) Inactive	COMM	LS	CLS (Limestone)	(blank)	170 ug/l	17	0	8	
JLUC00384		WALNUT GE		(IN) Inactive	TNC	LS	CLS (Limestone)	Traverse, Dundee, Detroit River	9D ug/	8	11	16	
MAD00196	LONDON WELLFIELD	В	Madison	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	London Complex	166 ug/l	14	26	32	
MAD00226	PLAIN CITY WELLFIELD	2	Madison	(AR) Active Rotational	COMM	LS	CDO (Dálostane)	(blank)	387 ug/l	24	10	27	
MAD00228	SOUTH SOLON WELLFIELD	1	Madison	(AR) Active Rotational	COMM	LS	CDO (Dalostane)	(blank)	225 ug/l	25	24	29	
MAD00281	DEERCREEK SCHOOL WELLFIELD	1	Madison	(IN) Inactive	TNC	UNC	UGR (Gravel)	Prairie Complex	47 ug/l	2	47	54	
MAD00276 MAD00387	MT. STERLING WELLFIELD PLAIN CITY WELLFIELD	7	Madison Madison	(SB) Slandby (SB) Slandby	COMM	LS LS	CDO (Dolostane) CDO (Dolostane)	(blank) (blank)	285 ug/l 377 ug/l	23	60 15	73	
										3		31	

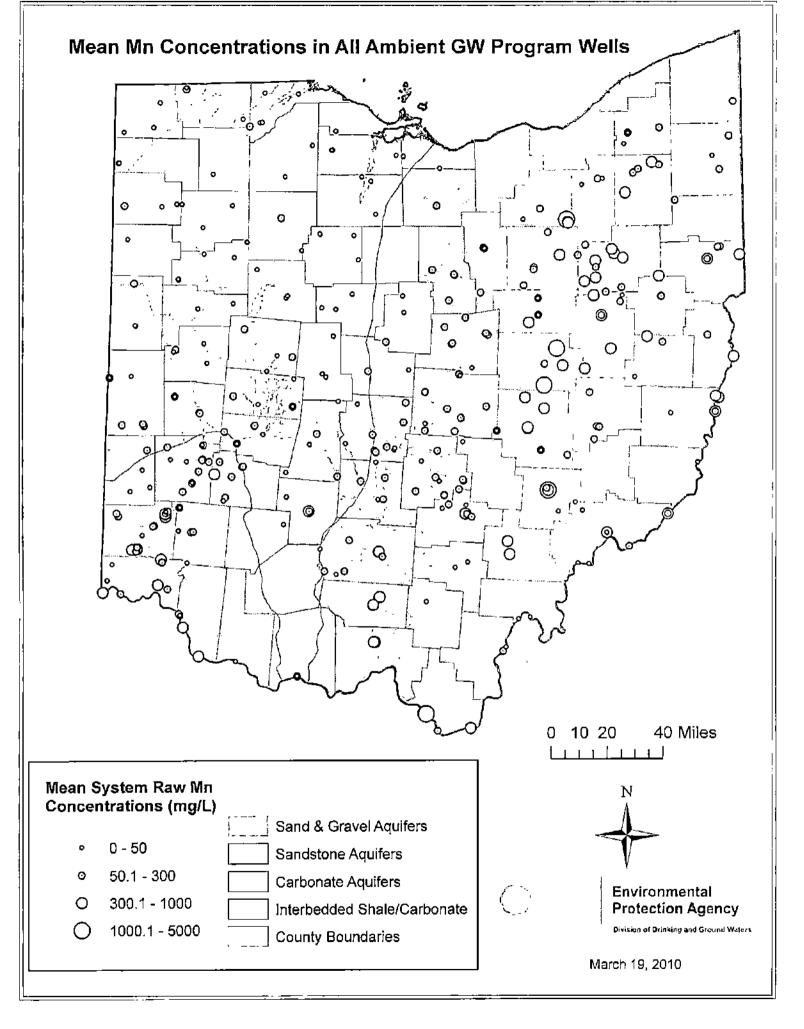
									Well	Concentrati Sample	ons		
ation ID	Station Name	Well Name	county_name	well_status_desc	pws_type	Lithcode	LithDescription	aquifer_name	Depth Units	Count	Min	Avg	Ma
FUL08890	MAUMEE STATE FOREST HQ	1	Fulton	(AS) Active Standard	Non-PWS	UNC	USD (Sand)	(blank)	25 ug/l	10	11	21	3
FUL08891	WHITE PINES GOLF COURSE	1	Fulton	(AS) Active Standard	TNC	(blank)	CSH (Shale)	(blank)	210 ug/l	4	0	78	24
UL08920	FAYETTE WATERWORKS	4	Fulton	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Williams Complex	194 ug/l	2	18	20	2
GAL00030	GALLIA CO. AIRPORT	1	Gallia	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Ohio River	60 ug/l	20	60	81	10
GAL02560	GALLIA CO RWA	4	Gallia	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Ohio River	66 ug/l	9	17	27	5
EA00198	ASM INTERNATIONAL	2	Geauga	(AS) Active Standard	Non-PWS	SS	CHS (Shale/Sandstone)	Massillon through Sharon formations	138 ug/l	32	0	65	17
GEA00444	MIDDLEFIELD WELLFIELD	1	Geauga	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Cuyahoga Buried Valley	104 ug/l	26	47	54	6
SEA00446	TANGLEWOOD LAKE WATER COMPANY	9	Geauga	(AS) Active Standard	Non-PWS	SS	CSS (Sandstone)	Cuyahoga Group	159 ug/l	23	0	8	2
SEA06130	MIDDLEFIELD WELLFIELD	2	Geauga	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Cuyahoga Buried Valley	84 ug/l	1	60	60	6
GEA08750	ASM INTERNATIONAL	1	Geauga	(SB) Standby	COMM	SS	CHS (Shale/Sandstone)	Massillon through Sharon formations	150 ug/l	1	0	0	
GRE00039	YELLOW SPRINGS WELLFIELD	1	Greene	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Little Miami River	82 ug/l	14	105	183	27
GRE00044	CARTER JONES LUMBER	1	Greene	(IN) Inactive	COMM	UNC	UGR (Gravel)	Beaver Creek	145 ug/l	11	345	371	40
GRE00045	WRIGHT STATE UNIVERSITY	1	Greene	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Mad River	109 ug/l	1	80	80	8
SRE00049	SPRING VALLEY WELLFIELD, STU 2	2	Greene	(IN) Inactive	COMM	UNC	UGR (Gravel)	Little Miami River	53 ug/l	15	120	167	20
SRE00111	XENIA-FORD ROAD WWTP	1	Greene	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Little Miami River	67 ug/l	31	0	166	30
GRE00143	WRIGHT STATE UNIVERSITY	2	Greene	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Mad River	116 ug/l	8	85	152	46
GRE00150	YELLOW SPRINGS WELLFIELD	2	Greene	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Little Miami River	81.6 ug/l	36	251	297	39
RE00372	GREENE CO SWR WELLFIELD	SWR1	Greene	(AS) Active Standard	Non-PWS	UNC	USG (Sand/Gravel)	Little Miami River	55 ug/l	16	0	0	
SRE00398	GREENE CO SWR WELLFIELD	SWR2	Greene	(SB) Standby	Non-PWS	UNC	USG (Sand/Gravel)	Little Miami River	49.5 ug/l	2	0	0	
SUE00091	BYESVILLE WELLFIELD	1	Guernsey	(IN) Inactive	COMM	SS	CHS (Shale/Sandstone)	Allegheny and Pottsville undiv	0 ug/l	31	184	294	54
UE00092	KIMBOLTON WELLFIELD	7	Guernsey	(IN) Inactive	COMM	SS	CHS (Shale/Sandstone)	Allegheny and Pottsville undiv	100 ug/l	4	25	136	40
UE00093	PLEASANT CITY WELLFIELD	2	Guernsey	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Wills Creek	50 ug/l	30	47	56	9
SUE08923	BYESVILLE WELLFIELD	2	Guernsey	(AS) Active Standard	COMM	SS	CHS (Shale/Sandstone)	Pennsylvanian undivided, and Allegheny and upper	0 ug/l	2	95	106	11
AM00036	ACOE-MARIEMONT	4	Hamilton	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Little Miami River	40 ug/l	4	10	114	37
IAM00041	SWR WATER DISTRICT SOUTH PLANT	1	Hamilton	(AR) Active Rotational	Non-PWS	UNC	USG (Sand/Gravel)	Great Miami River	82 ug/l	27	190	323	197
IAM00053	NORWOOD WELLFIELD	1	Hamilton	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Norwood Trough	200 ug/l	6	540	755	102
IAM00056	MIAMI WHITERWATER FOREST	1	Hamilton	(IN) Inactive	TNC	UNC	USG (Sand/Gravel)	Whitewater River	82 ug/l	19	0	47	52
HAM00057	BRIGHTON MOSTELLER PLANT	2	Hamilton	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Mill Creek	70 ug/l	6	715	803	114
1AM00058	FORT HILL DUPONT PLANT	50	Hamilton	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Ohio River	85 ug/l	6	230	353	74
IAM00059	HOME CITY ICE	1	Hamilton	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Ohio River	103 ug/l	8	110	158	27
AM00064	LOVELAND WELLFIELD	2	Hamilton	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Little Miami River	70 ug/l	3	0	0	
4AM00089	LOVELAND WELLFIELD	5	Hamilton	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Little Miami River	81 ug/l	24	0	15	21
HAM00122	LOCKLAND WTP	8	Hamilton	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Mill Creek	199 ug/l	15	60	96	19
HAM00257	CLEVES WELLFIELD	3	Hamilton	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	64 ug/l	1	49	49	4
HAM00380	LOCKLAND WTP	6	Hamilton	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mill Creek	201 ug/l	16	85	97	11
AM08769	LOCKLAND WTP	5	Hamilton	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Mill Creek	200 ug/l	1	116	116	11
HAN00132	CENTREX CORP.	182	Hancock	(IN) Inactive	Non-PWS	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite	200 ugn	11	25	68	13
AN00383	RIVERDALE HS	1	Hancock	(AR) Active Rotational	NTNC	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite		16	0	0	13
HEN00121	HOLGATE WATERWORKS	2	Henry	(AR) Active Rotational	COMM	LS	CLS (Limestone)	(blank)	310 ug/l	19	0	4	2
HIG00418	HIGHLAND COUNTY WATER COMPANY	4	Highland	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Paint Creek	62 ug/l	19	26	231	30
HIG06929	HIGHLAND COUNTY WATER COMPANY	5	Highland	(SB) Standby	COMM	UNC		Paint Creek		2	168	229	29
HOC00001	HIDE-A-WAY HILLS LODGE	3	Hocking	(IN) Inactive	NTNC	SS	USG (Sand/Gravel) CSS (Sandstone)		94 ug/l 215 ug/l	2	40	260	132
HOC00010	HOCKING VALLEY CONCRETE	2			17.00		A 10 Sept. 75 Sept. 20 Sept. 2	Logan and Black Hand undivided	No. of Control of Cont	10	60	200	30
1OC00081	EGP, INC.	2	Hocking	(IN) Inactive (AR) Active Rotational	Non-PWS Non-PWS	UNC	USG (Sand/Gravel)	Hocking River	25 ug/l 375 ug/l	20	0	203	30
10C00081	LOGAN WELLFIELD	G	Hocking		COMM		CSS (Sandstone)	Logan and Black Hand undivided	Sec. 100 (100 (100 (100 (100 (100 (100 (100			14	
OC00082		6	Hocking	(IN) Inactive	- Control - Cont	UNC	USG (Sand/Gravel)	Hocking River	65 ug/l	11	190	292	35
IOC00083	ROCKBRIDGE POST OFFICE LOGAN WELLFIELD	B	Hocking	(AR) Active Rotational	NTNC	UNC	USG (Sand/Gravel)	Hocking River	68 ug/l	34	165	204	
10C08901		В	Hocking	(SB) Standby	Non-PWS	UNC	USG (Sand/Gravel)	Hocking River	63 ug/l	22	307	348	4
	LETO'S RIDGE	1	Hocking	(AS) Active Standard	Non-PWS	SS	CSS (Sandstone)	Logan and Black Hand undivided	345 ug/l	10	29	39	5
IOC08909	LOGAN WELLFIELD	C	Hocking	(AS) Active Standard	СОММ	UNC	USD (Sand)	Hocking River	0 ug/l	7	274	347	39
1OL00026	RotoSolutions (COMPAK/DATACARD)	1	Holmes	(SB) Standby	Non-PWS	UNC	USG (Sand/Gravel)	Killbuck Buried Valley	130 ug/l	3	0	17	5
IOL00177	RotoSolutions (COMPAK/DATACARD)	MAIN	Holmes	(AO) Active Organic	Non-PWS	UNC	USG (Sand/Gravel)	Killbuck Buried Valley	90 ug/l	22	16	82	57
OL00179	KILLBUCK WELLFIELD	1	Holmes	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	200 ug/l	26	547	626	68
IOL00180	MILLERSBURG WELLFIELD	2	Holmes	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Killbuck Buried Valley	90 ug/l	1	150	150	1:
IOL00241	KILLBUCK WELLFIELD	2	Holmes	(SB) Standby	COMM	SS	CSS (Sandstone)	Logan and Black Hand undivided	0 ug/l	2	529	572	6
HOL00242	MILLERSBURG WELLFIELD	3	Holmes	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Killbuck Buried Valley	93 ug/l	23	0	20	3
HRD00084	SYPRIS	3	Hardin	(IN) Inactive	Non-PWS	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite		22	30	46	10

		 -								<u> </u>
•			Mangan	ese Levels in Ohio's .	Ambient (R	aw Water)	Ground Water Quality	y Monitoring Network		
Sallon D.	Shilloun times		COULC'S IN THE	A CONTRACTOR OF THE CONTRACTOR	14.5		*****		भाग वर्षे के गंगा–ता किये हैं कि है।	ender in the same
Station D.	Station Name	WallName		well status clase	OTE GEO	<u> Parenta</u>	ипражийся 🔻	ំ ត្រាប់ថ្ងៃ ពិធីបាន	Declin Units	Count (Lin Ave M
39CLE00146	NEW RICHMOND WELLFIELD	3	Clermont	(IN) Inactive	COMM	UNC	USG (Sand/Grave!)	Ohio River	86 ug/l	6 500 768 97
39CLE00420	PIERCE UNION BATAVIA WELLFIELD	16	Clermont	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Ohio River	91 ug/l	21 83 123 17
39CLE06047	PIERGE UNION BATAVIA WELLFIELD	18	Clermont	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Ohio River	92 ug/l	2 0 129 25
39CLE06640	PIERCE UNION BATAVIA WELLFIELD	6	Clermont	(IN) Inactive	COMM	UNC	USG (Sand/Gravet)	Ohio River	0 ug/l	1 20 20 2
39CL100417	SABINA WELLFIELD	10 5	Clinton	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	110 ug/l	22 14 33 30
39COL00396 39COL00443	LISBON WELLFIELD EAST PALESTINE WELLFIELD	RHODES	Columbiana Columbiana	(AS) Active Standard (AR) Active Rolational	COMM	SS UNC	CSS (Sandstone) USG (Sand/Gravel)	Allegheny and Pottsville undiv	1 00 ug/l	26 175 335 189
39COL08908	LISBON WELLFIELD	RHODES 6	Columbiana	(SB) Standby	COMM	SS	CSS (Sandstone)	Little Beaver Creek Allegheny and Pottsville undiv	75 ug/l 0 ug/l	21 417 452 48 1 223 223 22
39COL08914	COLUMBIANA PWS	4	Columbiana	(AS) Active Standard	COMM	SS	CSS (Sandstone)	Cuyahoga Group	ບ ບຽນ 265 ນຽ/ໄ	6 179 248 27
39COL08915	COLUMBIANA PWS	ā	Columbiana	(AS) Active Standard	COMM	SS	CSS (Sandstone)	Cuyahoga Group	410 ug/l	4 157 166 17
39COS00016	CSOE-CONESVILLE STATION	2	Coshocton	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravet)	Muskingum River	92 ug/l	13 670 3338 655
39COS00086	COSHOCTON WELLFIELD	<u>-</u>	Coshocton	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	82 ug/l	21 150 250 30
39COS00088	WEST LAFAYETTE WELLFIELD	1	Coshocton	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	120 ug/l	4 260 310 35
39COS00203	WEST LAFAYETTE WELLFIELD	2	Coshocton	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	120 ug/	35 105 654 513
39CDS00373	USDA FIELD STATION	2	Coshocton	(AR) Active Rotational	Non-PWS	SS	CHS (Shale/Sandstone)		222 ug/l	22 1260 1538 191
39COS05479	WEST LAFAYETTE WELLFIELD	3	Coshocton	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Tuscarawas River	152 ug/l	1 690 690 69
39DAR00035	ARCANUM WATER & LIGHT	2	Darke	(IN) Inactive	COMM	UNC	MUC (USG + CDO)	Stillwater River	29 ug/l	23 50 68 9
39DAR00054	ANSONIA VILLAGE	1	Darke	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Stillwater River	84.5 ug/l	7 35 47 6
39DAR00381	ARCANUM WATER & LIGHT	5	Darke	(IN) Inactive	COMM	LS	CDO (Dolostone)	Lockport Dolomite	83 ug/l	8 85 105 12
39DAR00413	UNION CITY WELLFIELD	5	Darke	(IN) Inactive	COMM	LS	CDO (Dolostone)	Lockport Dolomite	268 ug/l	19 22 25 3
39DAR00414	UNION CITY WELLFIELD	2	Darke	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Union City Moralne	80 ug/l	20 43 52 6
39DAR00424	NEW MADISON WELLFIELD	1	Darke	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	Lockpart Dalomite	166 ug/l	21 83 100 12
39DAR08899	ARCANUM WATER & LIGHT	4	Darke	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	(blank)	42 ug/l	<u>8</u> 103 136 18
39DEF00103	HICKSVILLE WATERWORKS	2	Defiance	(IN) Inactive	COMM	LS	CLS (Limestone)	Traverse, Dundee, Detroit River	188 ug/l	3 0 0
39DEF00197 39DEL00199	HICKSVILLE WATERWORKS	3	Defiance Delaware	(AR) Active Retational	COMM	UNC LS	USG (Sand/Gravel)	Williams Complex	178 ug/l	19 0 4 4
39DEL00199	GARTH'S AUCTION BARN ASHLEY WELLFIELD	1	Delaware Delaware	(IN) Inactive (IN) Inactive	TNC COMM	UNC	CLS (Limestone) USG (Sand/Gravel)	Delaware and Columbus Limestone Alum Creek	45 ug/l	2 86 87 8
39DEL00205	MORNING VIEW CARE CENTER	2	Delaware	(IN) Inactive	NTNG	SS	CSS (Sandstone)	Berea Sandstone	28 ug/l 140 ug/l	21 151 240 31 2 43 43 4
39ERI00260	MILAN WATERWORKS	5	Erie	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Norwalk Buried Valley	140 og/i 152 ug/l	22 0 22 4
39ER105449	CASTALIA (OTC)	MB4	Erle	(IN) Inactive	TNC	LS	CDO (Dolostone)	(blank)	150 ug/l	13 0 9 12
39FAI00195	LANCASTER WELLFIELD	28	Fairfield	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Hocking River	104 ug/l	19 134 191 24
39FAI00220	BREMEN WELLFIELD	2	Fairfield	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	Rush Creek	60 ug/l	35 45 112 12
39FA100247	SUGAR GROVE WELLFIELD	4	Fairfield	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Hocking River	57 ug/l	34 46 124 21
39FAI00262	DEED'S DAIRY	114	Fairfield	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Hocking River	25 ug/l	2 0 0
39FA100274	CARROLL WELLFIELD	1	Fairfield	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Hocking River	74 ug/)	25 0 2
39FAI00277	AMANDA WELLFIELD	1	Fairfield	(IN) Inactive	COMM	SS	CSS (Sandstone)	Cuyahoga Group	80 ug/l	2 29 77 12
39FAID027B	BALTIMORE WELLFIELD	1	Fairfield	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Baltimore Burled Valley	175 ug/l	19 181 192 2°
39FAI07111	SUGAR GROVE WELLFIELD	5	Fairfield	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Hocking River	58 ug/l	3 110 144 16
39FAI08913	BREMEN WELLFIELD	5	Fairfield	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	Rush Creek	67 ug/l	4 124 133 14
39FAY00020	ARMCO STEEL CORP2	1.	Fayette	(IN) Inactive	Non-PWS	UNC	MUC (USG + CDO)	Esboro Moraine and Lockport Dolomite	215 ug/l	2 85 108 13
39FAY00214	WASHINGTON CH WELLFIELD	11	Fayette	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Paint Creek	47 ug/l	31 125 403 67
39FAY00267	MCDONALD'S RESTAURANT	1	Fayette	(IN) Inactive	TNC	LS	CDO (Delestone)	(blank)	102 ug/i	2 12 13
39FAY00374	WASHINGTON CH WELLFIELD	8	Fayette	(AS) Active Standard	COMM	LS LS	CDO (Dolostone)	Lackport Dolamite	200 ug/l	25 13 51 67
39FRA00066 39FRA00225	ASHLAND CHEMICAL	1 3	Franklin Franklin	(AR) Active Rotational (AR) Active Rotational	COMM Non-PWS	LS	CLS (Limestone) CDO (Dolostone)	(blank) Undiff Salina Dolomite	155 ug/)	22 33 39 4 26 22 36 7
39FRA00225 39FRA00233	BATTELLE DARBY METRO PARK	3	Franklin Franklin	(AR) Active Rotational (IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Unditt Salina Dolomite Baltimore Buried Valley	55 ug/l	
39FRA00233	GROVEPORT WELLFIELD JEFFERSON WATER & SEWER DISTRICT	1	Franklin Franklin	(AO) Active Organic	COMM	UNC	USG (Sand/Gravel)	Big Walnut Buried Valley	96 ug/) 74 ug/l	21 34 44 4 33 74 119 14
39FRA00235	OBETZ WELLFIELD	St	Franklin	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	East Columbus Buried Valley	125 ug/l	33 74 179 14
39FRA00236	MYERS RESIDENCE	1	Franklin	(AR) Active Rotational	Non-PWS	SS	CSS (Sandstone)	Cuyahoga Group	50 ug/l	27 55 88 1
39FRA00402	COLUMBUS SOUTH WELLFIELD	101	Franklin	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Sciolo River	78 ug/l	26 152 234 28
39FRA00403	COLUMBUS SOUTH WELLFIELD	103	Franklin	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Scioto River	111 ug/1	1 168 168 16
39FRA00404	STRAWSER & ALLEN PARTNERSHIP	1	Franklin	(AS) Active Standard	COMM	LS	(blank)	(blank)	85 ug/l	27 87 114 20
39FRA07113	JEFFERSON WATER & SEWER DISTRICT	2	Franklin	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Big Walnut Buried Valley	73 ug/l	1 121 121 12
39FRA07114	OBETZ WELLFIELD	N1	Franklin	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	East Columbus Buried Valley	125 ug/l	2 59 61
39FRA08892	GROVEPORT WELLFIELD	3	Franklin	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Battimore Buried Valley	-, 106 ug/l	12 23 36
39FUL00101	FAYETTE WATERWORKS	1	Fulton	(IN) Inactive	COMM	UNC	UGR (Gravel)	Williams Complex	- 47 цдЛ	19 0 88 13
								•	5.	_
U equals ND (<1	(0 ug/l); 0 was used for ND values to calculate ave	erage.							•	20

Manganese Levels in Ohio's Ambient (Raw Water) Ground Water Quality Monitoring Network

									Well	Concentrati	ons	
ation ID	Station Name	Well Name	county_name	well_status_desc	pws_type	Lithcode	LithDescription	aquifer_name	Depth Units	Sample	Min	Avg
DA00070	ADAMS COUNTY WATER CO.	4	Adams	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Ohio River	66 ug/l	11	0	5
A00217	ADAMS COUNTY WATER CO.	1	Adams	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Ohio River	0 ug/l	2	65	92
L00130	BLUFFTON SOUTH WTP	3	Allen	(IN) Inactive	COMM	LS	CDO (Dolostone)	(blank)	100 ug/l	4	0	0
LL00153	SPENCERVILLE WELLFIELD	3	Allen	(SB) Standby	COMM	LS	CLS (Limestone)	Tymochtee, Greenfield and Lockport dolomite	roo ugn	4	0	8
LL00184	SPENCERVILLE WELLFIELD	1	Allen	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite		20	0	9
LL00407	GOMER ELEMENTARY SCHOOL	SCHOOL	Allen	(IN) Inactive	NTNC	LS	CDO (Dolostone)	(blank)	280 ug/l	7	0	0
LL08882		1	Allen	(IN) Inactive	COMM	LS	CDO (Dolostone)	(blank)	340 ug/l	14	0	23
	BLUFFTON SOUTH WTP BEAVERDAM, VILLAGE OF	2	Allen	(AS) Active Standard	COMM	LS		(blank)	435 ug/l	3	10	11
LL08919	The state of the s	3	Ashland	And the president was a month of the	COMM	UNC	CLD (Limestone + Dolostone)	Mohican River		8	100	162
SH00135	ASHLAND WTP		The second secon	(IN) Inactive	2000 CO	10 (10) (10)	USG (Sand/Gravel)		91 ug/l		0	4
SH00136	ASHLAND WTP	5	Ashland	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mohican River	97 ug/l	23		
SH00149	MANSFIELD PLUMBING PRODUCTS	1	Ashland	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Mohican River	84 ug/l	16	65	170
SH00183	ASHLAND WTP	4	Ashland	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Mohican River	325 ug/l	19	0	77
TB00401	ANDOVER WTP	7	Ashtabula	(AR) Active Rotational	COMM	SS	CSS (Sandstone)	Bedford Shale, Cussewago Sands	73 ug/l	24	12	167
TH00024	ATHENS, CITY OF	2A	Athens	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Hocking River	52 ug/l	48	0	614
TH00078	CHAUNCEY WELLFIELD	1	Athens	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Hocking River	50 ug/l	- 1	360	360
ATH00147	CHAUNCEY WELLFIELD	2	Athens	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Hocking River	57 ug/l	24	28	406
AUG00098	WAPAKONETA WATERWORKS	1	Auglaize	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	Tymochtee, Greenfield and Lockport dolomite		20	10	22
UG00433	WAYNESFIELD WELLFIELD	2	Auglaize	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	245 ug/l	22	14	17
UG08907	WAPAKONETA WATERWORKS	2	Auglaize	(SB) Standby	COMM	LS	CLD (Limestone + Dolostone)	Lockport Dolomite	268 ug/l	1	31	31
BEL00114	BELMONT COUNTY SANITARY DISTRICT	1	Belmont	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Ohio River	73 ug/l	43	146	235
BEL00151	BELMONT COUNTY SANITARY DISTRICT	3	Belmont	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Ohio River	75 ug/l	2	311	331
EL00452	MARTINS FERRY WELLFIELD	9	Belmont	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Ohio River	0 ug/l	9	619	892
EL08881	MARTINS FERRY WELLFIELD	13	Belmont	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Ohio River	69 ug/l	18	609	866
RO00419	BROWN COUNTY RWA	5	Brown	(AR) Active Rotational	Non-PWS	UNC	USG (Sand/Gravel)	Ohio River	65 ug/l	20	23	38
RO07020	BROWN COUNTY RWA	6	Brown	(SB) Standby	Non-PWS	UNC	USG (Sand/Gravel)	Ohio River	86 ug/l	1	35	35
UT00040	CHAMPION PAPER MILL	4	Butler	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Great Miami River	216 ug/l	13	0	2
BUT00051	OXFORD WELLFIELD	1	Butler	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Four Mile	55 ug/l	36	0	83
3UT00065	MILLER BREWING COMPANY	3	Butler	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Great Miami River	218 ug/l	5	45	130
BUT00117	MIDDLETOWN PAPERBOARD	1	Butler	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Great Miami River	140 ug/l	9	415	509
SUT00119	MILLER BREWING COMPANY	2	Butler	(IN) Inactive	Non-PWS	UNC	USG (Sand/Gravel)	Great Miami River	202 ug/l	1	155	155
UT00155	MIDDLETOWN WELLFIELD	17	Butler	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Great Miami River	147 ug/l	19	176	286
UT00244	MIDDLETOWN WELLFIELD	18	Butler		COMM	UNC		Great Miami River	146 ug/l	10	108	270
9.750 P 200 E P P P P P P P P P P P P P P P P P P				(AS) Active Standard		STATE OF THE STATE	USG (Sand/Gravel)			7		279
BUT00252	MIDDLETOWN WELLFIELD	6	Butler	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	178 ug/l		252	
BUT00375	HAMILTON SOUTH WELLFIELD	FW3	Butler	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Great Miami River	169 ug/l	28	198	287
UT06046	MIDDLETOWN WELLFIELD	3	Butler	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	0 ug/l	1	347	347
BUT07116	HAMILTON SOUTH WELLFIELD	6	Butler	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Great Miami River	0 ug/l	2	156	162
3UT08633	MIDDLETOWN WELLFIELD	12	Butler	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Great Miami River	49 ug/l	2	0	0
3UT08646	FAIRFIELD WELLFIELD	6	Butler	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	(blank)	164 ug/l	2	389	389
BUT08911	OXFORD WELLFIELD	2	Butler	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Four Mile	0 ug/l	7	79	119
CAR00169	CARROLLTON WELLFIELD	1	Carroll	(SB) Standby	COMM	SS	CHS (Shale/Sandstone)	Pennsylvanian Undivided	135 ug/l	15	27	84
CAR08903	CARROLLTON WELLFIELD	2	Carroll	(AS) Active Standard	COMM	SS	(blank)	(blank)	0 ug/l	9	85	137
CHA00052	URBANA WELLFIELD-OLD TROY PIKE	9	Champaign	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Mad River	62 ug/l	15	0	24
CHA00109	URBANA WELLFIELD-OLD TROY PIKE	8	Champaign	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Mad River	63 ug/l	31	0	3
HA00409	ST PARIS WELLFIELD, STU 1	1	Champaign	(AS) Active Standard	COMM	UNC	UGR (Gravel)	Farmersville Complex	210 ug/l	17	71	78
CHA00410	MECHANICSBURG WELLFIELD	4	Champaign	(IN) Inactive	COMM	UNC	USG (Sand/Gravel)	Little Darby	73 ug/l	6	110	120
HA00412	NORTH LEWISBURG WELLFIELD	2	Champaign	(AR) Active Rotational	COMM	LS	CDO (Dolostone)	(blank)	143 ug/l	18	10	12
HA08746	MECHANICSBURG WELLFIELD	1	Champaign	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Little Darby	98.5 ug/l	19	27	35
LA00048	NEW CARLISLE WELLFIELD	1	Clark	(AR) Active Rotational	COMM	UNC	USG (Sand/Gravel)	Honey Creek	113 ug/l	36	157	213
LA00075	SPRINGFIELD WTP	5	Clark	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Mad River	96 ug/l	38	104	139
CLA00090	ENON WELLFIELD	2	Clark	(AS) Active Standard	COMM	UNC	USG (Sand/Gravel)	Mad River	78 ug/l	29	26	58
LA00112	PARKLAKE APARTMENTS	-	Clark	(IN) Inactive Standard	NTNC	UNC	USG (Sand/Gravel)	Mad River	0 ug/l	11	0	0
LA00112	SPRINGFIELD WTP	7						Mad River	107 ug/l	10	98	116
LOS PROPERTY AND THE CO.			Clark	(SB) Standby	COMM	UNC	USG (Sand/Gravel)		50 ug/l	4	90	26
CLA00287	ENON WELLFIELD	2	Clark	(SB) Standby	COMM	UNC	USG (Sand/Gravel)	Mad River		5	25	336
LEODO63	CAPT. ANTHONY MELDAHLM	1	Clermont	(IN) Inactive	NTNC	UNC	USG (Sand/Gravel)	Ohio River	105 ug/l	5	25	336





Interoffice Memo

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Environmental Protection Agency

To:

Paul Koval, DAPC

CC:

Carolyn O'Neal, CDO-DDAGW; Judy Scott, City of Mount Vernon

From:

Mike Eggert, DDAGW

Date:

March 18, 2010

Re:

Manganese Levels in City of Mount Vernon Ground Water and Treated Drinking Water

This summary was developed at the request of Paul Koval, DAPC, (who is working with U.S. EPA and ATSDR on a research project studying manganese exposure levels in Ohio) to provide information on manganese levels in the City of Mount Vernon's ambient ground water quality (untreated), treated drinking water and a brief discussion on statewide manganese levels in ambient ground water quality.

Ambient Ground Water Quality Monitoring Data (Raw Water)

Mount Vernon's well field is located in the Kokosing Buried Valley sand and gravel aquifer. The average manganese concentration in Mount Vernon's ground water is 107 ug/l based on data collected from 20 samples collected from 1991 to 2008. The Fredericktown well field has a higher average manganese concentration than Mount Vernon and is located in the same aquifer formation approximately six miles to the north.

			,				/ - 1	Avg
او	_	,		Sample				Well
aquiler name	Station Name	• `	Units	Count	Min:	Ave	Max_	Depth
Kokosing Buried Valley	FREDERICKTOWN WELLFIELD		ug/I	26	175	203	228	132
, , , , , , , , , , , , , , , , , , , ,	MT. VERNON WELLFIELD		ug/l	20	94	107	117	98
Kokosing Buried Valley To	tal, , ,		_	46	94	161	228	117

Statewide Summary of Manganese in Ground Water

Attached is a statewide summary, by ambient ground water quality monitoring station, which provides statistics on manganese concentrations in ground water. Wells located in unconsolidated sand and gravel deposits and sandstone/inter-bedded sandstone bedrock formations in eastern Ohio exhibit higher levels of naturally occurring manganese in ground water. A principal factor that controls the concentration of manganese in ground water is the redox condition. A more reduced condition (less oxygen) in the aquifer usually results in higher manganese concentration. Most of the ambient ground water quality monitoring stations reflect natural conditions, however a few of the stations located industrial sites exhibit very elevated concentrations (3,000 to 8,000 ug/l) and are most likely impacted by anthropogenic activities. Below is a manganese summary by major aquifer type for only the ambient ground water monitoring wells (active and inactive) used by ~240 community public water systems. The average concentration in the sandstone and unconsolidated aquifers is approximately 210 ug/l.

CONTRACTOR OF THE PARTY OF THE		Sample		180	100	Avg Well
Lithcode	Units	Count	Min	Avg	Max	Depth
Carbonate (limestone, dolomite, etc)	ug/l	856	0	26	578	230
Sandstone - Interbedded Sandstone	ug/l	566	0	212	2080	189
Unconsolidated (sand and gravel)	ug/l	3209	0	210	5130	99

Note: 0 is non-detect (< 10 ug/l) and used to calculate average.

All community public water systems in Ohio with manganese concentrations exceeding 50 ug/l are required to provide treatment to reduce the levels to meet the secondary maximum contaminant limit (50 ug/l).

Additional manganese information (concentration distribution map, page 23) is available in the Division's 2000 Ground Water 305(b) report.

http://www.epa.state.oh.us/portals/28/documents/gwqcp/2000 305b.pdf

City of Mount Vernon's Treated Drinking Water

The Agency does not have manganese data for the treated (or finished) drinking water. Mount Vernon's treatment plant uses lime-soda softening process which is very effective in removing manganese. Mount Vernon public water system (PWS) is not required to collect and report manganese data to the Agency.

I spoke with Judy Scott, designated operator for Mount Vernon PWS. She indicated they do not routinely sample for manganese in the treated water. However, the City was requested on March 10 to collect a sample by the City's administrator to support the research study in question. The results should be available next week.

Judy Scott contact information -

Email: treatdistadmin@mountvernonohio.org

Phone: 740.393.9502

Part 2.3:114 of 249

Davis, Stephanie I. (CDC/ONDIEH/NCEH)

From:

Wagner.Jaime@epamail.epa.gov

Sent:

Monday, July 26, 2010 1:00 PM

To:

Davis, Stephanie I. (ATSDR/DHS/HIBR)

Cc:

Greg Stein; PSC Colledge.Michelle EPAMAIL.EPA.GOV

Subject:

RE: Cancer

Margaret Millard is the Region 5 CARE Program contact. I do know that competition for the 2010 grants has been completed. The next grant competition would likely start in the February-April 2011 timeframe, but Margaret Millard would know all the details. She would also be the one to talk to a community about the CARE process, etc.

Her email is: millard.margaret@epa.gov Her phone number is: (312) 353-1440

Hope this helps! Jaime

From:

"Davis, Stephanie I. (ATSDR/DHS/HIBR)" <sgd8@cdc.gov>

To:

Michelle Colledge/R5/USEPA/US@EPA, "Greg Stein" < Greg. Stein@odh.ohio.gov>

Cc:

Jaime Wagner/R5/USEPA/US@EPA

Date:

07/23/2010 05:45 PM

Subject: RE: Cancer

Hi Michelle and Greg:

I wonder if the EPA CARE program might be a way we can assist East Liverpool?

http://www.epa.gov/care/basic.htm

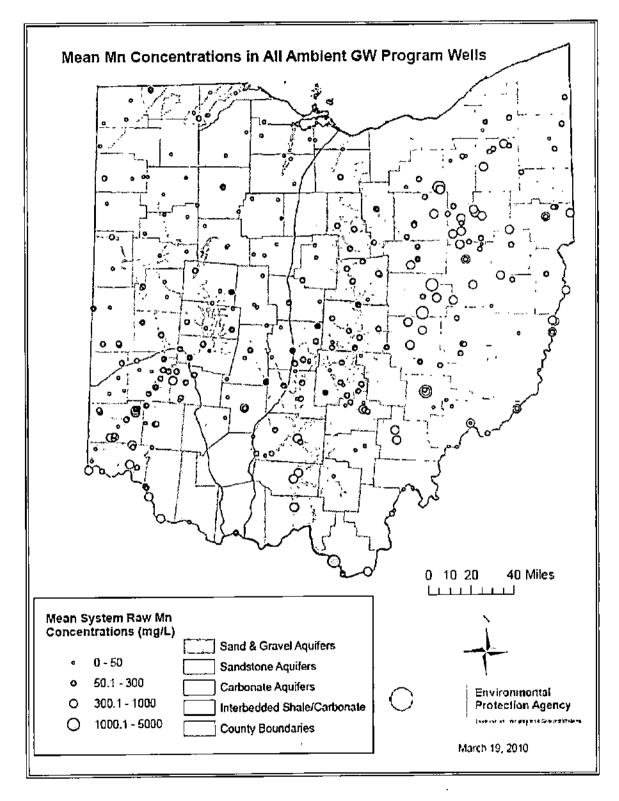
This is the program that I am helping Lora Werner and EPA Region 3 bring some research dollars in to study mountaintop mining in WV. ATSDR and EPA are working together under a 2007 MOU.

We may be able to help the community apply for a Level I cooperative agreement, then see if their performance will allow them to compete well for a Level II cooperative agreement.

I don't mind helping out at all. Maybe you or Jaime can identify a Region 5 EPA person who is working with this program.

Steph

Appendix E. Proposed Ohio County Ground Water Exposure Classification by Underlying Geology (Source: Ohio EPA)



Proposal: PD Mortality in Ohio 09 03 2010

Davis, Stephanie I. (CDC/ONDIEH/NCEH)

From:

PSC Colledge.Michelle EPAMAIL.EPA.GOV

Sent:

Thursday, October 28, 2010 10:44 AM

To:

Davis.Alison@epamail.epa.gov

Cc:

Wagner.Jaime@epamail.epa.gov; Cannon.Phillippa@epamail.epa.gov; Davis, Stephanie I.

(ATSDR/DHS/HIBR)

Subject:

Re: Our folks are asking if we can delay announce til early next week -- they are

drowning.

Alison-

Interesting article. Our division of health studies will be doing a review of "parkinson's like disease" in E. Liverpool, but we aren't mentioning that until we have some results to share.

As for the rest, that is my understanding as well.

Thx Michelle

Michelle A. Colledge MPH, PhD LCDR, U.S. Public Health Service Agency for Toxic Substances and Disease Registry/NCEH/CDC, Region 5 77 W. Jackson Blvd., Room 413 Mailstop ATSD-4J Chicago, Illinois 60604

Chicago, Illinois 60604 Tel: 312-886-1462 Fax: 312-886-6066

From:

Alison Davis/RTP/USEPA/US

Ta:

Michelle Colledge/R5/USEPA/US@EPA

Cc:

Jaime Wagner/R5/USEPA/US@EPA, Phillippa Cannon/R5/USEPA/US@EPA

Date:

10/28/2010 09:24 AM

Subject:

Re: Our folks are asking if we can delay announce til early next week -- they are drowning.

So here's my understanding: We are not announcing today. Vivi is OK with that. Your folks are planning to issue a media advisory about the meeting today. The Administrator's press secretary has OKd that approach; we will say that we will make our report available in plenty of time for people to review it before the meeting (translation - next week, but we don't know what day yet.

One thing we all should probably chat about. This story is in the clips today, about a possible link between manganese pollution and Parkinson's disease.

News Headline: Metal pollution tied to Parkinson's disease | 468

Outlet Full Name: Reuters - Online

News OCR Text: NEW YORK (Reuters Health) - People living near a steel factory or another source of high manganese emissions are at higher risk of developing Parkinson's disease, suggests a new study.

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As many as one million Americans live with the degenerative disease, according to the Parkinson's Disease Foundation. Pesticides from farms have long been suspected of upping the chances of developing Parkinson's, but much less is known about the influences of city living.

"Environmental risk factors for Parkinson's disease have been relatively under-studied, especially in urban areas where the overwhelming majority of Parkinson's disease patients reside," Dr. Brad A. Racette of the Washington University School of Medicine in St. Louis, Missouri, told Reuters Health in an e-mail.

Earlier research had tied heavy metals to Parkinson-like brain damage, but it wasn't clear if they could also play a role in people who aren't exposed to the metals as part of their job.

So Racette and his colleagues analyzed data on about five million Medicare beneficiaries who hadn't moved between counties from 1995 to 2003. Then they compared Parkinson's rates to industry emissions of copper, lead and manganese obtained from the Environmental Protection Agency.

By 2003, less than one percent of people in urban areas developed Parkinson's disease. In counties with little or no release of the metals, 274 out of every 100,000 people had the disease, compared to 489 in counties with high manganese levels.

The risk remained increased even after accounting for differences in age, sex and race, report the researchers in the American Journal of Epidemiology.

Areas with high copper emissions also saw more cases of Parkinson's, but the increase was so slight it could have been due to chance.

The researchers say they don't know whether manganese actually caused more people to get Parkinson's disease. It's possible that other risk factors in counties with lots of manganese emissions could be to blame.

"Although the findings related to manganese are very compelling, future studies investigating individual patient exposures and risk of Parkinson's disease will be required to confirm our study," said Racette.

"Understanding community level exposures to environmental toxins will be critical to determining the causes of most cases of Parkinson's disease," he added. "If our findings are confirmed, our data would suggest that reducing industrial metal emissions may result in a substantial reduction in the number of new cases."

SOURCE: link.reuters.com/zet52q American Journal of Epidemiology, online October 19, 2010.

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Part 2.3:224 of 249

From:

Michelle Colledge/R5/USEPA/US

To:

Alison Davis/RTP/USEPA/US@EPA

Jaime Wagner/R5/USEPA/US@EPA

Cc: Date:

10/28/2010 10:09 AM

Subject:

Re: Our folks are asking if we can delay announce til early next week -- they are drowning.

No issue as far as I'm concerned.

Michelle A. Colledge MPH, PhD LCDR, U.S. Public Health Service Agency for Toxic Substances and Disease Registry/NCEH/CDC, Region 5 77 W. Jackson Blvd., Room 413 Mailstop ATSD-4J Chicago, Illinois 60604 Tel: 312-886-1462

Tel: 312-886-1462 Fax: 312-886-6066

From:

Alison Davis/RTP/USEPA/US

To:

Michelle Colledge/R5/USEPA/US@EPA, Jaime Wagner/R5/USEPA/US@EPA

Date:

10/26/2010 05:21 PM

Subject:

Our folks are asking if we can delay announce til early next week -- they are drowning.

Let us know. We can make it work - but early next week would be easier .

Alison Davis Sr. Advisor for Public Affairs US EPA, Office of Air Quality Planning & Standards Research Triangle Park, NC 27711 tel. 919-541-7587

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